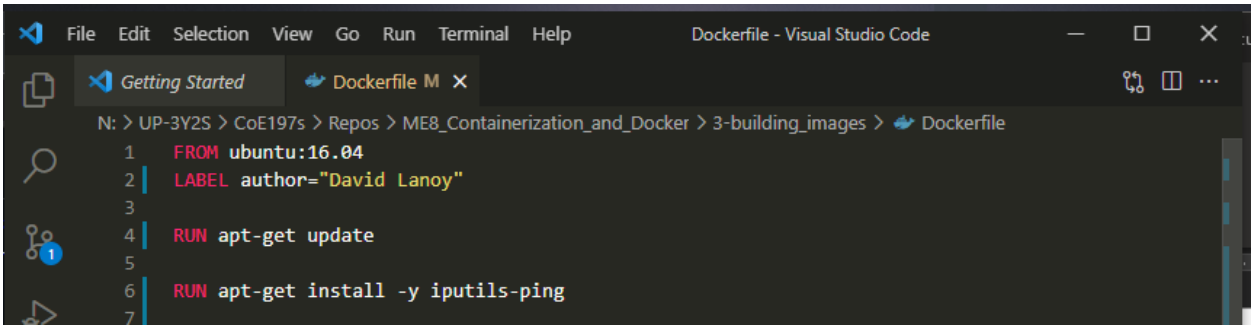
Building the Dockerfile



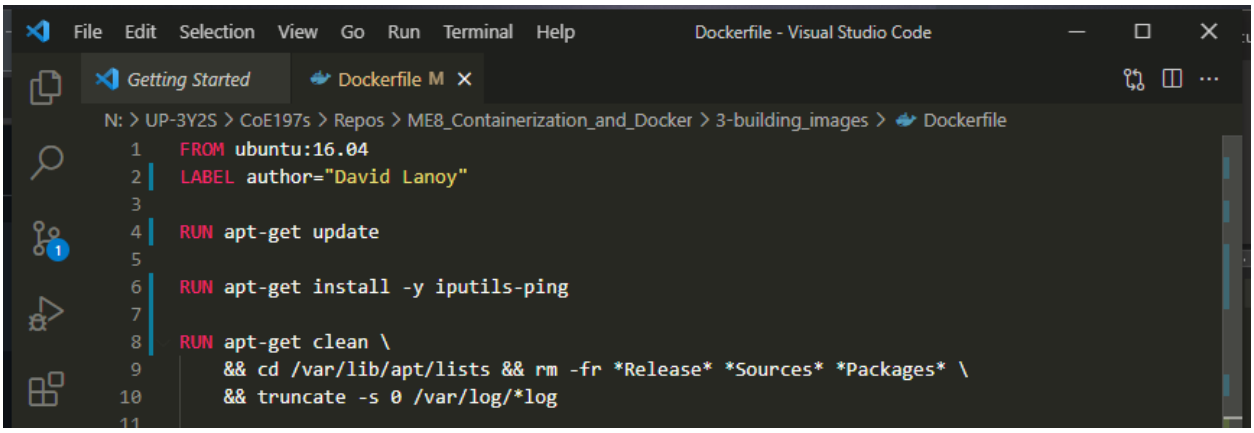

```
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker build -t 'davidlanoy/ping' .
[+] Building 71.6s (7/7) FINISHED
 => [internal] load build definition from Dockerfile                                                    0.0s
 => => transferring dockerfile: 4098                                                                    0.0s
 => [internal] load .dockerignore                                                                       0.0s
 => => transferring context: 2B                                                                         0.0s
 => [internal] load metadata for docker.io/library/ubuntu:16.04                                         0.0s
 => [1/3] FROM docker.io/library/ubuntu:16.04                                                           0.0s
 => [2/3] RUN apt-get update                                                                           63.7s
 => [3/3] RUN apt-get install -y iputils-ping                                                           7.6s
 => exporting to image                                                                                  0.2s
 => => exporting layers                                                                                 0.2s
 => => writing image sha256:4ccc832d41366ec4bf90d6241028619f9258601ac702949e83fce7fd1d9289e7            0.0s
 => => naming to docker.io/davidlanoy/ping                                                              0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker build -t 'davidlanoy/ping' .
[+] Building 0.1s (7/7) FINISHED
 => [internal] load build definition from Dockerfile                                                    0.0s
 => => transferring dockerfile: 328                                                                     0.0s
 => [internal] load .dockerignore                                                                       0.0s
 => => transferring context: 2B                                                                         0.0s
 => [internal] load metadata for docker.io/library/ubuntu:16.04                                         0.0s
 => [1/3] FROM docker.io/library/ubuntu:16.04                                                           0.0s
 => CACHED [2/3] RUN apt-get update                                                                     0.0s
 => CACHED [3/3] RUN apt-get install -y iputils-ping                                                    0.0s
 => exporting to image                                                                                  0.0s
 => => exporting layers                                                                                 0.0s
 => => writing image sha256:4ccc832d41366ec4bf90d6241028619f9258601ac702949e83fce7fd1d9289e7            0.0s
 => => naming to docker.io/davidlanoy/ping                                                              0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker images
REPOSITORY          TAG       IMAGE ID       CREATED          SIZE
davidlanoy/ping     latest    4ccc832d4136   2 minutes ago    169MB
ubuntu              16.04     aefd7f02ae24   2 weeks ago      134MB
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images>
```

Optimizing the Dockerfile

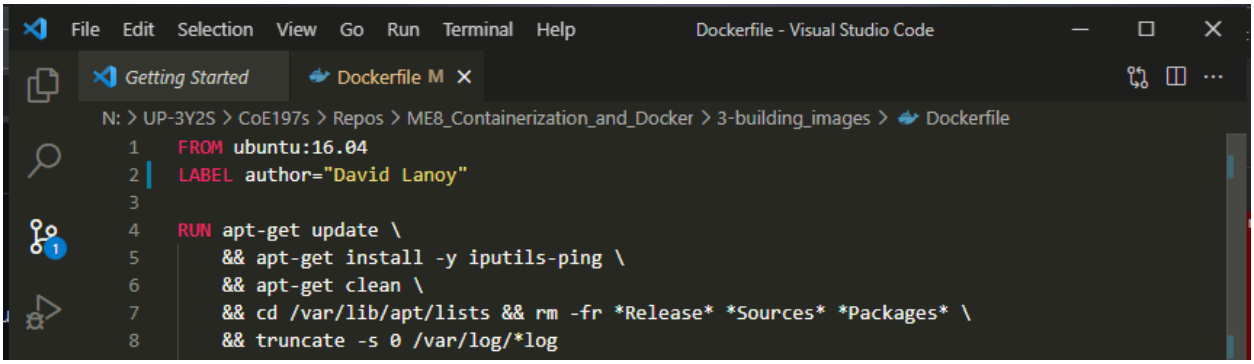
No improvement



```
[+] Building 0.1s (8/8) FINISHED
 => [internal] load build definition from Dockerfile                                                                0.0s
 => => transferring dockerfile: 32B                                                                                 0.0s
 => [internal] load .dockerignore                                                                                   0.0s
 => => transferring context: 2B                                                                                     0.0s
 => [internal] load metadata for docker.io/library/ubuntu:16.04                                                     0.0s
 => [1/4] FROM docker.io/library/ubuntu:16.04                                                                       0.0s
 => CACHED [2/4] RUN apt-get update                                                                                 0.0s
 => CACHED [3/4] RUN apt-get install -y iputils-ping                                                                0.0s
 => CACHED [4/4] RUN apt-get clean     && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Packages*     && truncate -s 0 /var/log/*log  0.0s
 => exporting to image                                                                                              0.0s
 => => exporting layers                                                                                             0.0s
 => => writing image sha256:63b9db0fca13dbffff8e6f7d8e08b443ef32d33cc0cd23402cdefd3ec7a1d464                        0.0s
 => => naming to docker.io/davidlanoy/ping                                                                          0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker images
REPOSITORY          TAG       IMAGE ID       CREATED              SIZE
davidlanoy/ping     latest    63b9db0fca13   About a minute ago   169MB
<none>              <none>    4ccc832d4136   8 minutes ago        169MB
ubuntu              16.04     aefd7f02ae24   2 weeks ago          134MB
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images>
```

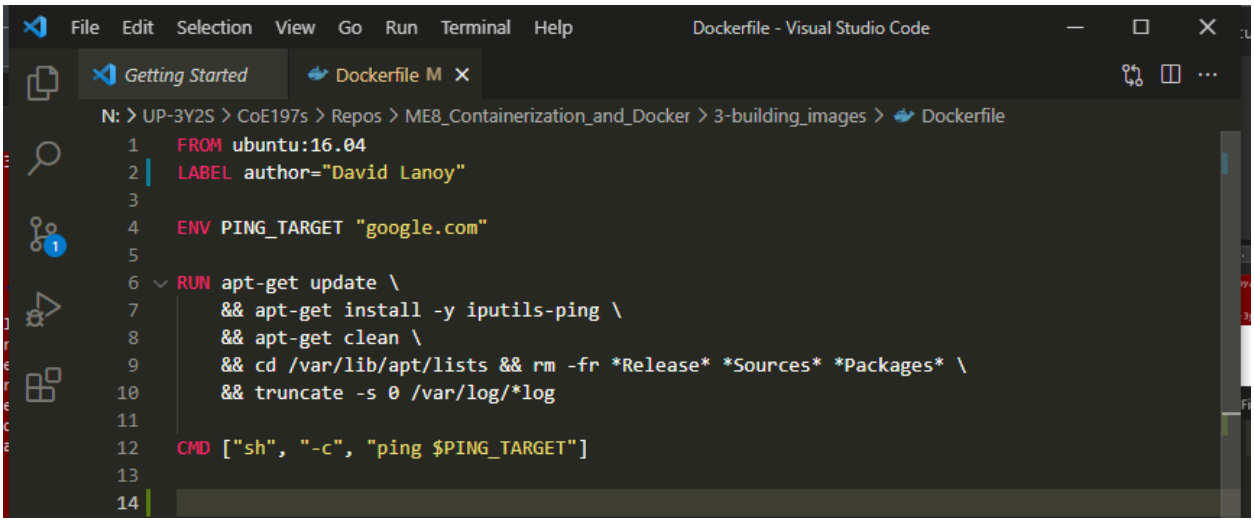
Only 4MB larger




```
[+] Building 131.9s (6/6) FINISHED
 => [internal] load build definition from Dockerfile                                                                0.0s
 => => transferring dockerfile: 359B                                                                                0.0s
 => [internal] load .dockerignore                                                                                   0.0s
 => => transferring context: 2B                                                                                     0.0s
 => [internal] load metadata for docker.io/library/ubuntu:16.04                                                     0.0s
 => CACHED [1/2] FROM docker.io/library/ubuntu:16.04                                                                0.0s
 => [2/2] RUN apt-get update     && apt-get install -y iputils-ping     && apt-get clean     && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Pack  131.7s
 => exporting to image                                                                                              0.1s
 => => exporting layers                                                                                             0.1s
 => => writing image sha256:fe843f0fdad9b6656d16085ea4eba388552c0fa897fd8bb7084e71f65b46f791                        0.0s
 => => naming to docker.io/davidlanoy/ping                                                                          0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker images
REPOSITORY          TAG       IMAGE ID       CREATED          SIZE
davidlanoy/ping     latest    fe843f0fdad9   2 minutes ago    138MB
<none>              <none>    63b9db0fca13   8 minutes ago    169MB
<none>              <none>    4ccc832d4136   15 minutes ago   169MB
ubuntu              16.04     aefd7f02ae24   2 weeks ago      134MB
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images>
```

Other Dockerfile directives




```
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker build -t 'davidlanoy/ping' .
[+] Building 98.2s (6/6) FINISHED
 => [internal] load build definition from Dockerfile                                                    0.0s
 => => transferring dockerfile: 360B                                                                    0.0s
 => [internal] load .dockerignore                                                                       0.0s
 => => transferring context: 2B                                                                         0.0s
 => [internal] load metadata for docker.io/library/ubuntu:16.04                                         0.0s
 => CACHED [1/2] FROM docker.io/library/ubuntu:16.04                                                    0.0s
 => [2/2] RUN apt-get update     && apt-get install -y iputils-ping     && apt-get clean     && cd /var/lib/apt/lists && rm -fr *Release* *Sources* *Packa  98.0s
 => exporting to image                                                                                  0.1s
 => => exporting layers                                                                                 0.1s
 => => writing image sha256:11ec917c9e0e8bf8f09667d6c2bb247f86cdc7a0ce5d5baa19e2e0f62267b71a            0.0s
 => => naming to docker.io/davidlanoy/ping                                                              0.0s
```

```
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images> docker run -it davidlanoy/ping
PING google.com (142.250.199.78) 56(84) bytes of data.
64 bytes from 142.250.199.78: icmp_seq=1 ttl=37 time=40.1 ms
64 bytes from 142.250.199.78: icmp_seq=2 ttl=37 time=40.2 ms
64 bytes from 142.250.199.78: icmp_seq=3 ttl=37 time=40.6 ms
^X64 bytes from 142.250.199.78: icmp_seq=4 ttl=37 time=40.6 ms
^C
--- google.com ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3004ms
rtt min/avg/max/mdev = 40.192/40.422/40.650/0.214 ms
PS N:\up-3y2s\coe197s\repos\me8_containerization_and_docker\3-building_images>
```